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October 26, 2018

VIA ELECTRONIC FILING

The Honorable Jocelyn G. Boyd Chief Clerk/Administrator Public Service Commission of South Carolina 101 Executive Center Drive, Suite 100 Columbia, South Carolina 29210

Re: Duke Energy Progress, LLC – Monthly Fuel Report Docket No. 2006-176-E

Dear Ms. Boyd:

Pursuant to the Commission's Orders in Docket No. 1977-354-E, enclosed for filing is Duke Energy Progress, LLC's Monthly Fuel Report in Docket No. 2006-176-E for the month of September 2018.

Should you have any questions regarding this matter, please do not hesitate to contact me at 803-988-7130.

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Sincerely,

Rebecca J. Dulin

Enclosure

cc: Service List

Duke Energy Progress Summary of Monthly Fuel Report

Schedule 1

Line No.	Item	_ 5	September 2018
1	Fuel and Fuel-related Costs excluding DERP incremental costs	\$	158,434,642
	MWH sales:		
2	Total System Sales		5,868,522
3	Less intersystem sales		441,128
4	Total sales less intersystem sales		5,427,394
5	Total fuel and fuel-related costs (¢/KWH) (Line 1/Line 4)	_	2.9192
6	Current fuel & fuel-related cost component (¢/KWH) (per Schedule 4)	_	2.8087
	Generation Mix (MWH):		
	Fossil (By Primary Fuel Type):		
7	Coal		666,663
8	Oil		2,207
9	Natural Gas - Combustion Turbine		505,453
10	Natural Gas - Combined Cycle		1,581,135
11	Biogas		156
12	Total Fossil		2,755,616
13	Nuclear		1,979,559
14	Hydro - Conventional		50,168
15	Solar Distributed Generation		16,687
16	Total MWH generation	_	4,802,030

Note: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress Details of Fuel and Fuel-Related Costs

Description	Se	ptember 2018
Fuel and Fuel-Related Costs:		
Steam Generation - Account 501		
0501110 coal consumed - steam	\$	24,351,327
0501310 fuel oil consumed - steam		295,904
Total Steam Generation - Account 501		24,647,231
Nuclear Generation - Account 518		
0518100 burnup of owned fuel		13,468,704
Other Generation - Account 547		
0547000 natural gas consumed - Combustion Turbine		16,406,706
0547000 natural gas capacity - Combustion Turbine		1,735,174
0547000 natural gas consumed - Combined Cycle		36,650,470
0547000 natural gas capacity - Combined Cycle		8,496,104
0547106 biogas consumed - Combined Cycle		6,196
0547200 fuel oil consumed		219,883
Total Other Generation - Account 547		63,514,533
Purchased Power and Net Interchange - Account 555		
Fuel and fuel-related component of purchased power		60,918,586
Fuel and fuel-related component of DERP purchases		74,363
PURPA purchased power capacity		9,533,487
DERP purchased power capacity		22,269
Total Purchased Power and Net Interchange - Account 555		70,548,705
Less fuel and fuel-related costs recovered through intersystem sales - Account 447		15,182,471
Total Costs Included in Base Fuel Component	\$	156,996,702
Environmental Costs		
0509030, 0509212, 0557451 emission allowance expense	\$	2,157
0502020, 0502030, 0502040, 0502080, 0502090, 0548020 reagents expense		1,446,270
Emission Allowance Gains		-
Less reagents expense recovered through intersystem sales - Account 447		2,700
Less emissions expense recovered through intersystem sales - Account 447		7,787
Total Costs Included in Environmental Component		1,437,940
Fuel and Fuel-related Costs excluding DERP incremental costs	<u>\$</u>	158,434,642
DERP Incremental Costs		239,679
Total Fuel and Fuel-related Costs	\$	158,674,321

Notes: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS PURCHASED POWER AND INTERCHANGE SOUTH CAROLINA

SEPTEMBER 2018

Schedule 3, Purchases Page 1 of 2

Purchased Power	 Total	 Capacity	apacity Non-capacity			
Marketers, Utilities, Other	 \$	\$	mWh		Fuel \$	Non-fuel \$
Broad River Energy, LLC.	\$ 25,485,242	\$ 5,370,034	502,147	\$	20,115,208	-
City of Fayetteville	1,926,593	790,675	18,724		1,135,918	-
Haywood EMC	29,050	29,050	-		-	-
NCEMC	5,386,528	2,107,579	85,355		3,278,949	-
PJM Interconnection, LLC.	224,376	-	7,169		224,376	-
Southern Company Services	3,549,936	658,634	86,232		2,891,302	-
DE Carolinas - Native Load Transfer	8,462,485	-	209,943		8,461,321	1,164
DE Carolinas - Native Load Transfer Benefit	201,360	-	-		201,360	, -
DE Carolinas - Fees	114,710	-	-		114,710	-
Energy Imbalance	63,395		1,544		58,094	5,301
Generation Imbalance	452		43		276	176
	\$ 45,444,127	\$ 8,955,972	911,157	\$	36,481,514	6,641
Act 236 PURPA Purchases						
Renewable Energy	\$ 19,913,026	\$ -	268,896	\$	19,913,026	\$ _
DERP Qualifying Facilities	96,632	-	1,506	·	96,632	-
Other Qualifying Facilities	14,057,533	-	194,171		14,057,533	-
, 0	\$ 34,067,191	\$ <u> </u>	464,573	\$	34,067,191	-
Total Purchased Power	\$ 79,511,318	\$ 8,955,972	1,375,730	\$	70,548,705	\$ 6,641

NOTE: Detail amounts may not add to totals shown due to rounding.

DUKE ENERGY PROGRESS INTERSYSTEM SALES* SOUTH CAROLINA

SEPTEMBER 2018

Schedule 3, Sales Page 2 of 2

	 Total		Capacity	Non-capacity				
Sales	 \$		\$	mWh		Fuel \$	Non-fuel \$	
Market Based:								
NCEMC Purchase Power Agreement	\$ 1,257,679	\$	652,500	15,584	\$	613,048	\$	(7,869)
PJM Interconnection, LLC.	5,027		-	71		3,085		1,942
Other:								
DE Carolinas - Native Load Transfer Benefit	400,217		-	-		400,217		-
DE Carolinas - Native Load Transfer	15,143,297		-	425,441		14,176,608		966,689
Generation Imbalance	(28)		-	32		-		(28)
Total Intersystem Sales	\$ 16,806,192	\$	652,500	441,128	\$	15,192,958	\$	960,734

^{*} Sales for resale other than native load priority.

NOTE: Detail amounts may not add to totals shown due to rounding.

Duke Energy Progress (Over) / Under Recovery of Fuel Costs September 2018

Schedu	ıle 4
Page 1	of 3

\$570,369

\$10,351

				Comoral Comico			
Line No.			Total Residential	General Service Non-Demand	Demand	Lighting	Total
1	Actual System kWh sales	Input					5,427,393,740
2	DERP Net Metered kWh generation	Input					2,011,329
3	Adjusted System kWh sales	L1 + L2				_	5,429,405,069
4	Astronal C. C. Doto il IVM/h. coloro	lane.d	100 470 010	20 200 050	202 057 025	(420.052	F11 2F0 /F0
4 5	Actual S.C. Retail kWh sales DERP Net Metered kWh generation	Input Input	192,472,913 680,970	29,398,859 27,752	283,057,835 1,302,607	6,430,052	511,359,659 2,011,329
6	Adjusted S.C. Retail kWh sales	L4 + L5	193,153,883	29,426,611	284,360,442	6,430,052	513,370,988
Ü			170,100,000	27/120/011		0,100,002	010/010/700
7	Actual S.C. Demand units (kw)	L32 / 31b *100			885,000		
	component of recovery - non-capacity						
8	Incurred System base fuel - non-capacity expense	Input					\$137,135,304
9	Eliminate avoided fuel benefit of S.C. net metering	Input				_	\$64,483
10 11	Adjusted Incurred System base fuel - non-capacity expense Adjusted Incurred System base fuel - non-capacity rate (¢/kWh)	L8 + L9 L10 / L3 * 100					\$137,199,787 2.527
11	Aujusteu incurreu System base luer - non-capacity rate (\$\pi\kappavvvii)	L107L3 100					2.527
12	S.C. Retail portion of adjusted incurred system expense	L6 * L11 / 100	\$4,880,953	\$743,604	\$7,185,721	\$162,486	\$12,972,764
13	Assign 100 % of Avoided Fuel Benefit of S.C net metering	Input	(\$38,118)	(\$3,521)	(\$22,844)	\$0	(\$64,483)
14	S.C. Retail portion of incurred system expense	L12 + L13	\$4,842,835	\$740,083	\$7,162,877	\$162,486	\$12,908,281
15	Billed base fuel - non-capacity rate (¢/kWh) - Note 1	Input	2.366	2.366	2.366	2.366	2.366
16	Billed base fuel - non-capacity revenue	L4 * L15 /100	\$4,553,503	\$695,577	\$6,697,148	\$152,135	\$12,098,363
17	DERP NEM incentive - fuel component	Input	(\$10,461)	(\$966)	(\$6,269)	\$0	(\$17,696)
18	Adjusted S.C. billed base fuel - non-capacity revenue	L16 + L17	\$4,543,042	\$694,611	\$6,690,879	\$152,135	\$12,080,667
19	S.C. base fuel - non-capacity (over)/under recovery [See footnote]	L18 - L14	\$299,793	\$45,472	\$471,998	\$10,351	\$827,614
20 21	Adjustment Total S.C. base fuel - non-capacity (over)/under recovery [See footnote]	Input L19 + L20	\$299,793	\$45,472	\$471,998	\$10,351	\$827,614
					, , ,	,	, ,
	component of recovery - capacity	L23 / L4 * 100	0.572	0.24/			
22a 22b	Incurred base fuel - capacity rates by class (¢/kWh) Incurred base fuel - capacity rate (¢/kW)	L23 / L4 100 L23 / L7 * 100	0.572	0.346	75		
23	Incurred S.C. base fuel - capacity expense	Input	\$1,100,816	\$101,693	\$659,693		\$1,862,202
24a	Billed base fuel - capacity rates by class (¢/kWh)	Input	0.676	0.426	Ψ037,073		Ψ1,002,202
24b	Billed base fuel - capacity rate (¢/kW)	Input	0.07.0	01.120	88		
25	Billed S.C. base fuel - capacity revenue	L24a * L4 /100	\$1,300,728	\$125,239	\$ 784,548	\$0	\$2,210,515
26	S.C. base fuel - capacity (over)/under recovery [See footnote]	L25 - L23	(\$199,912)	(\$23,546)	(\$124,855)	\$0	(\$348,313)
27	Adjustment	Input	\$0	\$0	\$0	\$0	\$0
28	Total S.C. base fuel - capacity (over)/under recovery [See footnote]	L26 + L27	(\$199,912)	(\$23,546)	(\$124,855)	\$0	(\$348,313)
Environme	ntal component of recovery						
29a	Incurred environmental rates by class (¢/kWh)	L30 / L4 * 100	0.042	0.025	_		
29b	Incurred environmental rate (¢/kW)	L30 / L7 * 100	¢00.007	\$7.000	5		#125 400
30	Incurred S.C. environmental expense	Input	\$80,087	\$7,398	\$47,995		\$135,480
31a	Billed environmental rates by class (¢/kWh)	Input	0.019	0.008	1		
31b 32	Billed environmental rate (¢/kW) Billed S.C. environmental revenue	Input L31a * L4 /100	\$36,291	\$2,352	\$ 8,850		\$47,493
33	S.C. environmental (over)/under recovery [See footnote]	L32 - L30	\$43,796	\$5,046	\$39,145	\$0	\$87,987
34	Adjustment	Input	Ψ13,170	Ψ3,040	Ψ37,143	ΨΟ	\$0
35	Total S.C. environmental (over)/under recovery [See footnote]	L33 + L34	\$43,796	\$5,046	\$39,145	\$0	\$87,987
Distributed	Energy Resource Program component of recovery: avoided costs						
36a	Incurred S.C. DERP avoided cost rates by class (¢/kWh)	L37 / L4 * 100	0.003	0.002			
36b	Incurred S.C. DERP avoided cost rates by class (¢/kW)	L37 / L7 * 100			0.365		
37	Incurred S.C. DERP avoided cost expense	Input	\$5,382	\$497	\$3,226		\$9,105
38a	Billed S.C. DERP avoided cost rates by class (¢/kWh)	Input	0.003	0.001			
206	Billed S.C. DERP avoided cost rates by class (¢/kW)	Input			0.000		
38b		L38a * L4 /100	\$5,730	\$294	\$0		\$6,024
39	Billed S.C. DERP avoided cost revenue					+ =	
39 40	S.C. DERP avoided cost (over)/under recovery [See footnote]	L39 - L37	(\$348)	\$203	\$3,226	\$0 \$0	\$3,081
39						\$0 \$0 \$0	

L21 + L28 + L35 + L42

\$27,175

\$389,514

\$143,329

Total (over)/under recovery [See footnote]

Duke Energy Progress (Over) / Under Recovery of Fuel Costs September 2018

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(131,203)

274,081

309,612

(\$64,657)

0

0

0

\$0

24,152

144,359

43,807

(\$35,890)

11,044

10,394

5,149 (\$2,734)

	September 2018					
Year 2018-2019						
Cumulative (over) / under recovery - BASE FUEL NON-CAPACITY	Cumulative	Total Residential	General Service Non-Demand	Demand	Lighting	Total
		TOTAL RESIDENTIAL	Non-Demand	Demanu	Lighting	TUlai
Balance ending February 2018	\$23,394,223	¢10E 044	¢1117	¢202 204	¢E 272	¢220.470
March 2018 - actual	23,722,902	\$105,966	\$14,137	\$203,204	\$5,372 (7,700)	\$328,679
April 2018 - actual	23,109,195	(170,943)	(23,111)	(411,945)	(7,708)	(613,707)
May 2018 - actual	23,830,285	191,924	30,025	488,780	10,361	721,090
June 2018 - actual	25,124,368	428,696	63,626	785,404	16,357	1,294,083
July 2018 - actual	24,946,484	(67,321)	(9,747)	(99,157)	(1,659)	(177,884
August 2018 - actual	24,050,415	(311,321)	(46,740)	(528,335)	(9,673)	(896,069)
September 2018 - actual	24,878,029	299,793	45,472	471,998	10,351	827,614
_/2 October 2018 - forecast	21,802,104	(901,499)	(152,626)	(1,974,600)	(47,200)	(3,075,925
_/2 November 2018 - forecast	19,083,525	(837,014)	(131,670)	(1,708,671)	(41,224)	(2,718,579
_/2 December 2018 - forecast	17,035,153	(748,304)	(89,884)	(1,181,749)	(28,435)	(2,048,372
_/2 January 2019 - forecast	15,806,562	(516,927)	(49,794)	(646,373)	(15,497)	(1,228,591
_/2 February 2019 - forecast	14,348,023	(581,562)	(61,606)	(796,238)	(19,133)	(1,458,539
_/2 March 2019 - forecast	12,441,609	(709,744)	(86,270)	(1,084,341)	(26,059)	(1,906,414
_/2 April 2019 - forecast	8,847,922	(1,150,562)	(178,242)	(2,212,046)	(52,837)	(3,593,687
_/2 May 2019 - forecast\	6,713,241	(602,133)	(112,282)	(1,387,182)	(33,084)	(2,134,681
	\$5,465,689	(\$400,984)	(\$62,211)	(\$766,130)	(\$18,227)	(\$1,247,552
Year 2018-2019						
			General Service			
Cumulative (over) / under recovery - BASE FUEL CAPACITY	Cumulative	Total Residential	Non-Demand	Demand	Lighting	Total
Balance ending February 2018	\$1,622,067	•	•	•		
March 2018 - actual	1,523,528	\$79,187	(\$398)	(\$177,328)	\$0	(\$98,539
April 2018 - actual	2,089,902	479,717	34,630	52,027	0	566,374
May 2018 - actual	2,445,242	379,717	16,470	(40,847)	0	355,340
June 2018 - actual	2,666,876	217,876	(2,152)	5,910	0	221,634
July 2018 - actual	2,857,544	88,083	(5,454)	108,039	0	190,668
August 2018 - actual	2,709,391	(174,287)	(21,437)	47,571	0	(148,153
September 2018 - actual	2,361,078	(199,912)	(23,546)	(124,855)	0	(348,313
_/2 October 2018 - forecast	2,377,186	32,413	(8,013)	(8,292)	0	16,108
_/2 November 2018 - forecast	2,325,223	(17,593)	(4,745)	(29,625)	0	(51,963
_/2 December 2018 - forecast	1,837,907	(372,900)	(8,663)	(105,753)	0	(487,316
					0	•
_/2 January 2019 - forecast	997,845	(805,580)	(15,658)	(18,824)	0	(840,062)
_/2 February 2019 - forecast	360,048	(568,087)	(9,516) 11,044	(60,194)	0	(637,797)

228,845

502,926

812,538

\$747,881

Voar 2018-2010

_/2 March 2019 - forecast _/2 April 2019 - forecast

_/2 May 2019 - forecast\ _/2 June 2019 - forecast

Year 2018-2019						
			General Service			
Cumulative (over) / under recovery - ENVIRONMENTAL	Cumulative	Total Residential	Non-Demand	Demand	Lighting	Total
Balance ending February 2018	(\$616,504)					
March 2018 - actual	(648,397)	(\$9,388)	(\$802)	(\$21,703)	\$0	(\$31,893)
April 2018 - actual	(646,907)	10,886	939	(10,335)	0	1,490
May 2018 - actual	(644,440)	13,284	519	(11,336)	0	2,467
June 2018 - actual	(578,713)	44,416	3,379	17,932	0	65,727
July 2018 - actual	(485,932)	52,174	4,953	35,654	0	92,781
August 2018 - actual	(331,044)	82,556	8,644	63,688	0	154,888
September 2018 - actual	(243,057)	43,796	5,046	39,145	0	87,987
_/2 October 2018 - forecast	(242,414)	(5,866)	128	6,381	0	643
_/2 November 2018 - forecast	(248,512)	(9,849)	(111)	3,862	0	(6,098)
_/2 December 2018 - forecast	(213,088)	11,304	2,674	21,446	0	35,424
_/2 January 2019 - forecast	17,383	121,347	13,802	95,322	0	230,471
_/2 February 2019 - forecast	208,961	101,144	11,454	78,980	0	191,578
_/2 March 2019 - forecast	212,896	(7,592)	971	10,556	0	3,935
_/2 April 2019 - forecast	184,261	(24,804)	(1,314)	(2,517)	0	(28,635)
_/2 May 2019 - forecast\	192,031	(720)	418	8,072	0	7,770
_/2 June 2019 - forecast	\$245,901	\$24,362	\$3,264	\$26,244	\$0	\$53,870
Year 2018-2019						

(166,399)

119,328

260,656

(\$26,033)

			General Service			
Cumulative (over) / under recovery - DERP AVOIDED COSTS	Cumulative	Total Residential	Non-Demand	Demand	Lighting	Total
Balance ending February 2018	\$2,713	•	-	•	-	•
March 2018 - actual	7,033	\$2,554	\$236	\$1,530	\$0	\$4,320
April 2018 - actual	14,508	4,419	408	2,648	0	7,475
May 2018 - actual	21,181	3,945	364	2,364	0	6,673
June 2018 - actual	23,496	1,368	127	820	0	2,315
July 2018 - actual	26,569	755	189	2,129	0	3,073
August 2018 - actual	36,281	3,500	568	5,644	0	9,712
September 2018 - actual	39,362	(348)	203	3,226	0	3,081
_/2 October 2018 - forecast	40,865	(813)	96	2,220	0	1,503
_/2 November 2018 - forecast	42,181	(895)	102	2,109	0	1,316
_/2 December 2018 - forecast	42,017	(2,374)	98	2,112	0	(164)
_/2 January 2019 - forecast	39,923	(4,232)	81	2,057	0	(2,094)
_/2 February 2019 - forecast	38,905	(3,213)	96	2,099	0	(1,018)
_/2 March 2019 - forecast	38,715	(2,451)	99	2,162	0	(190)
_/2 April 2019 - forecast	39,837	(1,272)	103	2,291	0	1,122
_/2 May 2019 - forecast\	41,526	(619)	87	2,221	0	1,689
_/2 June 2019 - forecast	\$41,839	(\$1,811)	\$61	\$2,063	\$0	\$313

Duke Energy Progress (Over) / Under Recovery of Fuel Costs September 2018

Residential

Industrial

Total

Commercial

Schedule 4 Page 3 of 3

LINE NO.	•		Nesideritiai	Commercial	iliuustiiai	iotai
Distributed	d Energy Resource Program component of recovery: incremental costs	•			•	
44	Incurred S.C. DERP incremental expense	Input	\$141,683	\$56,227	\$41,769	\$239,679
45	Billed S.C. DERP incremental rates by account (\$/account)	Input	0.72	1.26	99.55	
46	Billed S.C. DERP incremental revenue	Input	\$94,610	\$38,782	\$24,005	\$157,397
47	S.C. DERP incremental (over)/under recovery [See footnote]	L44 - L46	\$47,073	\$17,445	\$17,764	\$82,282
48	Adjustment	Input				
49	Total S.C. DERP incremental (over)/under recovery [See footnote]	L47 + L48	\$47,073	\$17,445	\$17,764	\$82,282
	Year 2018-2019					
	Cumulative (over) / under recovery	Cumulative	Total			
	Balance ending February 2018	(\$448,552)				
	March 2018 - actual	(541,339)	(\$92,787)			
	April 2018 - actual	(634,011)	(92,672)			
	May 2018 - actual	(707,644)	(73,633)			
	June 2018 - actual	(702,927)	4,717			
	July 2018 - actual	(661,166)	41,761			
	August 2018 - actual	(600,348)	60,818			
	September 2018 - actual	(518,066)	82,282			
	_/2 October 2018 - forecast	(428,198)	89,868			
	_/2 November 2018 - forecast	(334,650)				
	_/2 December 2018 - forecast	(238,612)	96,038			
	_/2 January 2019 - forecast	(125,803)	112,809			
	_/2 February 2019 - forecast	(6,325)	119,478			
	_/2 March 2019 - forecast	129,154	135,479			
	_/2 April 2019 - forecast	277,867	148,713			
	_/2 May 2019 - forecast\	433,649	155,782			
	_/2 June 2019 - forecast	\$597,381	\$163,732			

Notes:

Line No.

Detail amounts may not recalculate due to percentages presented as rounded.

Presentation of over or under collected amounts reflects a regulatory asset or liability. Over collections, or regulatory liabilities, are shown as

negative amounts.

Under collections, or regulatory assets, are shown as positive amounts.

_/1 Total residential billed fuel rate is a composite rate reflecting the approved residential rate of 2.384 and RECD 5% discount.

_/2 Forecast amounts based on low end of range of expected fuel rates.

Duke Energy Progress Fuel and Fuel Related Cost Report September 2018

Description	Weatherspoon CT	Lee CC	Sutton CC/CT	Robinson Nuclear	Asheville Steam	Asheville CT	Roxboro Steam	Mayo Steam
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	\$2,885,444	-	\$25,426,657	\$1,072,135
Oil	224,578	-	-	8,830	-	-	150,260	115,840
Gas - CC	-	16,330,571	9,210,201	-	-	-	-	-
Gas - CT	24	-	596,222	-	-	60,832	-	-
Biogas	-	-	-	-	-	-	-	-
Total	224,602	\$16,330,571	\$9,806,423	8,830	\$2,885,444	\$60,832	\$25,576,917	\$1,187,975
Average Cost of Fuel Purchased (¢/MBTU))							
Coal	-	-	-	-	330.27	-	330.14	343.04
Oil	1,685.77	-	-	-	-	-	1,617.61	1,614.72
Gas - CC	-	381.98	497.03	-	-	-	-	-
Gas - CT	-	-	436.72	-	-	55,809.17	-	-
Biogas	-	-	-	-	-	-	-	-
Weighted Average	1,685.95	381.98	492.89	-	330.27	55,809.17	331.69	371.57
Cost of Fuel Burned (\$)								
Coal	-	-	-	-	\$5,059,833	-	\$17,023,708	\$2,267,786
Oil - CC	_	-	_	-	- · · · · · · -	_	- · · · · · -	-
Oil - Steam/CT	79,454	_	_	_	41,771	_	187,707	66,426
Gas - CC	-	16,330,571	9,210,201	_	-	-	-	-
Gas - CT	24	-	596,222	_	_	60,832	_	_
Biogas	-	_	390,222	- -	_	-	_	· -
Nuclear	- -	- -	- -	- 2,810,034	- -	- -	-	- -
Total	\$79,478	\$16,330,571	\$9,806,423	\$2,810,034	\$5,101,604	\$60,832	\$17,211,415	\$2,334,212
Average Cost of Fire Direct (4/MDTU)								
Average Cost of Fuel Burned (¢/MBTU) Coal	-	_	_	-	323.69	-	328.64	324.80
Oil - CC	_	_	-	_	-	-	-	-
Oil - Steam/CT	1,594.82	_	-	_	1,584.03	-	1,584.29	1,560.76
Gas - CC	-	381.98	497.03	_	-	_	-	-
Gas - CT	_	-	436.72	-	_	55,809.17	_	_
	-	-	430.72	-	-	33,609.17	<u>-</u>	- -
Biogas	-	-	-	- 00.04	-	-	-	
Nuclear	4 505 00	- 204.00	- 400.00	69.31	- 205.04		- 224 54	- 220.00
Weighted Average	1,595.30	381.98	492.89	69.31	325.81	55,809.17	331.51	332.29
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	3.96	-	3.48	4.63
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	155.79	-	-	-	19.35	-	15.95	22.25
Gas - CC	-	2.83	3.80	-	-	-	-	-
Gas - CT	-	-	4.38	-	-	-	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	0.76	-	-	-	-
Weighted Average	155.84	2.83	3.83	0.76	3.98	-	3.51	4.74
Burned MBTU's								
Coal	-	-	-	-	1,563,170	-	5,180,010	698,215
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	4,982	-	-	-	2,637	-	11,848	4,256
Gas - CC	-	4,275,207	1,853,040	-	- -	-	-	-
Gas - CT	_	-	136,523	_	_	109	-	_
Biogas	_	_	-	_	_	_	-	_
Nuclear	_	_	_	4,054,013	-	_	-	-
Total	4,982	4,275,207	1,989,563	4,054,013	1,565,807	109	5,191,858	702,471
Net Generation (mWh)								
Coal					127,848		489,837	40.070
	-	-	-	-	141,048	-	409,037	48,978
Oil - CC	-	-	-	-	-	-	-	-
Oil - Steam/CT	51	-	-	-	216	-	1,177	299
Gas - CC	-	576,605	242,163	-	-	-	-	-
Gas - CT	-	-	13,600	-	-	(18)	-	-
Biogas	-	-	-	-	-	-	-	-
Nuclear	-	-	-	371,425	-	-	-	-
Hydro (Total System)								
Solar (Total System) Total	51	576,605	255,763	371,425	128,064	(18)	491,014	49,277
iom	31	370,000	200,700	37 1, 4 20	120,004	(10)	731,014	73,411
Cost of Reagents Consumed (\$)							.	
Ammonia	-	-	-	-	-	-	\$96,114	-
Limestone	-	-	-	-	242,193	-	577,942	106,044
Re-emission Chemical	-	-	-	-	-	-	63,945	-
Sorbents	-	-	-	-	9,016	-	162,514	35,849
Urea			<u>-</u>	<u> </u>	129,183	<u>-</u>	<u>-</u>	<u> </u>
Total	-	-	-	-	\$380,391	-	\$900,515	\$141,893
	Notes:							

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Cents/MBTU and cents/kWh are not computed when costs and/or net generation is negative.

Lee and Wayne oil burn is associated with inventory consumption shown on Schedule 6 for Wayne.

	Brunswick	Blewett	Wayne County	Darlington	Smith Energy Complex	Harris	Current	Total 12 ME
Description	Nuclear	СТ	СТ	СТ	CC/CT	Nuclear	Month	September 2018
Cost of Fuel Purchased (\$)								
Coal	-	-	-	-	-	-	\$29,384,236	\$264,976,480
Oil	-	-	145,167	-	-	-	644,675	77,803,192
Gas - CC	-	-	-	-	19,605,802	-	45,146,574	668,513,621
Gas - CT	-	-	3,467,719	1,386,653	12,630,430	-	18,141,880	152,210,486
Biogas	-	_	-	, , -	33,386	-	33,386	332,720
Total	-	-	\$3,612,886	\$1,386,653	\$32,236,232	-	\$93,350,751	\$1,163,836,499
Average Cost of Fuel Purchased (¢/MBTU)								
Coal	-	-	-	-	-	-	330.60	323.94
Oil	-	-	1,682.12	-	_	-	1,678.19	1,692.29
Gas - CC	_	_	-	_	338.09	-	378.52	452.73
Gas - CT	_	_	367.01	355.79	338.74	-	348.89	413.86
Biogas	_	_	-	-	2,954.51	_	2,954.51	2,926.30
Weighted Average	-	-	378.91	355.79	338.65	-	358.29	429.70
Cost of Fuel Burned (\$)								
Coal	-	_	_	_	-	_	\$24,351,327	\$300,602,492
Oil - CC	_	_	_	_	281	-	281	45,042
Oil - Steam/CT	_	9,162	130,986	_	-	_	515,506	78,167,892
Gas - CC	-	9,102	130,900	-		_		
	-	-	- 2 407 740	4 200 052	19,605,802	-	45,146,574	668,513,621
Gas - CT	-	-	3,467,719	1,386,653	12,630,430	-	18,141,880	152,210,486
Biogas	-	-	-	-	33,386	<u>-</u>	33,386	332,720
Nuclear	5,955,688	-	-	-	-	4,702,982	13,468,704	193,172,622
Total	\$5,955,688	\$9,162	\$3,598,705	\$1,386,653	32,269,899.00	\$4,702,982	\$101,657,658	\$1,393,044,875
Average Cost of Fuel Burned (¢/MBTU)								
Coal	-	-	-	-	-	-	327.24	320.27
Oil - CC	-	-	-	-	1,652.94	-	1,652.94	1,825.04
Oil - Steam/CT	-	1,668.86	1,742.07	-	-	-	1,621.55	1,664.39
Gas - CC	-	-	-	-	338.09	-	378.52	452.73
Gas - CT	-	-	367.01	355.79	338.74	-	348.89	413.86
Biogas	-	-	-	-	2,954.51	-	2,954.51	2,926.30
Nuclear	61.03	-	-	-	-	64.95	63.97	64.50
Weighted Average	61.03	1,668.86	377.87	355.79	338.66	64.95	222.67	239.15
Average Cost of Generation (¢/kWh)								
Coal	-	-	-	-	-	-	3.65	3.52
Oil - CC	-	-	-	-	14.05	-	14.05	20.28
Oil - Steam/CT	-	916.20	19.85	_	-	-	23.38	20.67
Gas - CC	-	-	-	_	2.57	-	2.86	3.35
Gas - CT	_	_	4.17	4.50	3.34	_	3.59	4.05
Biogas	_	_	-	-	21.36	_	21.36	22.09
Nuclear	0.66	_	_	_	21.50	0.67	0.68	0.68
Weighted Average	0.66	916.20	4.29	4.53	2.83	0.67	2.12	2.25
D 1407111								
Burned MBTU's							7 444 005	00.057.700
Coal	-	-	-	-	<u>-</u>	-	7,441,395	93,857,729
Oil - CC	-	-	-	-	17	-	17	2,468
Oil - Steam/CT	-	549	7,519	-	-	-	31,791	4,696,495
Gas - CC	-	-	-	-	5,798,980	-	11,927,227	147,661,745
Gas - CT	-	-	944,854	389,742	3,728,693	-	5,199,921	36,778,217
Biogas	-	-	-	-	1,130	-	1,130	11,370
Nuclear	9,758,192	-	-	-	-	7,241,284	21,053,489	299,496,187
Total	9,758,192	549	952,373	389,742	9,528,820	7,241,284	45,654,970	582,504,211
Net Generation (mWh)								
Coal	-	-	-	-	-	-	666,663	8,539,389
Oil - CC	-	-	-	-	2	-	2	222
Oil - Steam/CT	-	1	660	(198)	-	-	2,205	378,163
Gas - CC	-	-	-	-	762,367	-	1,581,135	19,956,864
Gas - CT	-	-	83,178	30,802	377,891	-	505,453	3,761,568
Biogas	-	_	55,775	-	156	-	156	1,506
Nuclear	006 020	_	_		130	701 214		
	906,920	-	-	-	-	701,214	1,979,559	28,444,034
Hydro (Total System)							50,168	692,297
Solar (Total System) _ Total	906,920	1	83,838	30,604	1,140,417	701,214	16,687 4,802,030	241,237 62,015,281
Cost of Boogonto Consumed (A)								
Cost of Reagents Consumed (\$)					<u> </u>		0440 505	#4 000 000
Ammonia	-	-	-	-	\$23,471	-	\$119,585	\$1,823,686
Limestone	-	-	-	-	-	-	926,179	10,196,057
Re-emission Chemical	-	-	-	-	-	-	63,945	206,222
Sorbents	-	-	-	-	-	-	207,378	2,883,156
Urea	-	-	-	-	-	-	129,183	1,010,231
Total	-	-	-	-	\$23,471	-	\$1,446,270	\$16,119,351

Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report September 2018

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Description	Weatherspoon	Lee	Sutton	Robinson	Asheville
Coal Data:					
Beginning balance	-	-	-	-	115,103
Tons received during period	-	-	-	-	35,573
Inventory adjustments	-	-	-	-	-
Tons burned during period	-	-	-	-	63,647
Ending balance	-	-	-	-	87,029
MBTUs per ton burned	-	-	-	-	24.56
Cost of ending inventory (\$/ton)	-	-	-	-	79.50
Oil Data:					
Beginning balance	572,396	-	2,632,614	78,040	2,476,762
Gallons received during period	96,538	-	-	-	-
Miscellaneous use and adjustments	(107)	-	-	-	(4,068)
Gallons burned during period	35,595	-	-	-	19,181
Ending balance	633,232	-	2,632,614	78,040	2,453,513
Cost of ending inventory (\$/gal)	2.23	-	2.80	2.44	2.18
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	4,144,900	1,939,017	-	106
MCF burned during period	-	4,144,900	1,939,017	-	106
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	-	-	-	-	12,755
Tons received during period	-	-	-	-	472
Inventory adjustments	-	-	-	-	-
Tons consumed during period	-	-	-	-	4,010
Ending balance	-	-	-	-	9,217
Cost of ending inventory (\$/ton)	-	-	-	-	59.16

Notes:

Detail amounts may not add to totals shown due to rounding.

Schedule excludes in-transit, terminal and tolling agreement activity.

Gas is burned as received; therefore, inventory balances are not maintained.

The oil inventory data for Wayne reflects the common usage of the oil tank used for both Wayne and Lee units.

Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report September 2018

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Description	Roxboro	Мауо	Brunswick	Blewett	Wayne County
Coal Data:					
Beginning balance	700,143	214,019	-	-	-
Tons received during period	306,553	12,707	-	-	-
Inventory adjustments	-	-	-	-	-
Tons burned during period	205,931	28,187	-	-	-
Ending balance	800,765	198,539	-	-	-
MBTUs per ton burned	25.15	24.77	-	-	-
Cost of ending inventory (\$/ton)	82.65	80.46	-	-	-
Oil Data:					
Beginning balance	203,763	251,507	168,863	685,977	11,652,560
Gallons received during period	67,312	51,984	-	-	62,537
Miscellaneous use and adjustments	(7,422)	(2,450)	-	-	-
Gallons burned during period	85,709	30,963	5,856	3,910	54,631
Ending balance	177,944	270,078	163,007	682,067	11,660,466
Cost of ending inventory (\$/gal)	2.19	2.15	2.44	2.34	2.40
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	913,620
MCF burned during period	-	-	-	-	913,620
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	-	-	-	-
MCF burned during period	-	-	-	-	-
Ending balance	-	-	-	-	-
Limestone/Lime Data:					
Beginning balance	74,706	18,634	-	-	-
Tons received during period	14,305	48	-	-	-
Inventory adjustments	70	-	-	-	-
Tons consumed during period	12,514	1,972	-	-	_
Ending balance	76,567	16,710	-	-	_
Cost of ending inventory (\$/ton)	44.06	52.46	-	_	-

Duke Energy Progress Fuel & Fuel-related Consumption and Inventory Report September 2018

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Description	Darlington	Smith Energy Complex	Harris	Current Month	Total 12 ME September 2018
Coal Data:					
Beginning balance	-	-	-	1,029,265	1,547,108
Tons received during period	-	-	-	354,833	3,240,397
Inventory adjustments	-	-	-	-	24,990
Tons burned during period	-	-	-	297,765	3,726,162
Ending balance	-	-	-	1,086,333	1,086,333
MBTUs per ton burned	-	-	-	24.99	25.19
Cost of ending inventory (\$/ton)	-	-	-	82.00	82.00
Oil Data:					
Beginning balance	9,991,385	8,279,889	302,087	37,295,843	38,351,702
Gallons received during period	-	-	-	278,371	33,315,265
Miscellaneous use and adjustments	-	-	-	(14,047)	(182,644)
Gallons burned during period	-	121	-	235,966	34,160,122
Ending balance	9,991,385	8,279,768	302,087	37,324,201	37,324,201
Cost of ending inventory (\$/gal)	2.39	2.33	2.44	2.39	2.39
Natural Gas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	380,874	9,259,493	-	16,638,010	179,331,412
MCF burned during period	380,874	9,259,493	-	16,638,010	179,331,412
Ending balance	-	-	-	-	-
Biogas Data:					
Beginning balance	-	-	-	-	-
MCF received during period	-	1,098	-	1,098	11,099
MCF burned during period	-	1,098	-	1,098	11,099
Ending balance	-	-	-	-	-
imestone/Lime Data:					
Beginning balance	-	-	-	106,095	123,363
Tons received during period	-	-	-	14,825	202,479
Inventory adjustments	-	-	-	70	14,719
Tons consumed during period	-	-	-	18,496	238,067
Ending balance	-	-	-	102,494	102,494
Cost of ending inventory (\$/ton)	-	-	-	46.79	46.79

DUKE ENERGY PROGRESS ANALYSIS OF COAL PURCHASED SEPTEMBER 2018

	_		 	
STATION	TYPE	QUANTITY OF TONS DELIVERED	IVERED COST	IVERED PER TON
ASHEVILLE	SPOT	11,227	\$ 954,374	\$ 85.01
	CONTRACT	24,346	1,875,967	77.05
	ADJUSTMENTS	-	 55,104	
	TOTAL	35,573	2,885,444	81.11
МАҮО	SPOT	-	-	-
	CONTRACT	12,707	1,013,008	79.72
	ADJUSTMENTS		59,127	-
	TOTAL	12,707	 1,072,135	 84.37
ROXBORO	SPOT	63,540	5,426,476	85.40
	CONTRACT	243,013	19,662,476	80.91
	ADJUSTMENTS	-	337,705	-
	TOTAL	306,553	25,426,657	82.94
ALL PLANTS	SPOT	74,767	6,380,849	85.34
	CONTRACT ADJUSTMENTS	280,066	 22,551,451 451,936	 80.52
	TOTAL	354,833	\$ 29,384,236	\$ 82.81

DUKE ENERGY PROGRESS ANALYSIS OF COAL QUALITY RECEIVED SEPTEMBER 2018

STATION	PERCENT	PERCENT	HEAT	PERCENT
	MOISTURE	ASH	VALUE	SULFUR
ASHEVILLE	6.50	11.64	12,280	1.81
MAYO	8.54	8.78	12,298	2.95
ROXBORO	7.04	9.04	12,562	1.97

DUKE ENERGY PROGRESS ANALYSIS OF OIL PURCHASED SEPTEMBER 2018

		MAYO	R	OXBORO	WAYNE	WEA	THERSPOON
VENDOR	Greensb	oro Tank Farm		ooro Tank Farm nd Indigo	Indigo	Petro	bleum Traders
SPOT/CONTRACT	(Contract		Contract	Contract		Contract
SULFUR CONTENT %		0		0	0		0
GALLONS RECEIVED		51,984		67,312	62,537		96,538
TOTAL DELIVERED COST	\$	115,840	\$	150,260	\$ 145,167	\$	224,578
DELIVERED COST/GALLON	\$	2.23	\$	2.23	\$ 2.32	\$	2.33
BTU/GALLON		138,000		138,000	138,000		138,000

Notes:

Price adjustment of \$8,830 for the Robinson station is excluded.

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Duke Energy Progress Power Plant Performance Data Twelve Month Summary

October, 2017 - September, 2018 Nuclear Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Brunswick 1	7,071,990	938	86.07	89.02
Brunswick 2	7,588,647	932	92.95	95.56
Harris 1	7,364,552	931	90.30	87.24
Robinson 2	6,418,845	741	98.89	95.23

Twelve Month Summary October, 2017 through September, 2018 Combined Cycle Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Lee Energy Complex	1A	1,432,250	225	72.83	80.46
Lee Energy Complex	1B	1,438,083	226	72.72	80.64
Lee Energy Complex	1C	1,485,134	227	74.77	81.85
Lee Energy Complex	ST1	2,857,440	379	86.07	93.46
Lee Energy Complex	Block Total	7,212,907	1,056	77.97	85.44
Richmond County CC	7	1,242,497	189	75.05	82.30
Richmond County CC	8	1,235,874	189	74.65	81.90
Richmond County CC	ST4	1,388,744	175	90.59	90.40
Richmond County CC	9	1,409,203	216	74.65	79.48
Richmond County CC	10	1,429,083	216	75.70	80.56
Richmond County CC	ST5	1,875,818	248	86.34	90.29
Richmond County CC	Block Total	8,581,219	1,232	79.51	84.20
Sutton Energy Complex	1A	1,291,947	224	65.77	72.95
Sutton Energy Complex	1B	1,312,551	224	66.82	73.59
Sutton Energy Complex	ST1	1,559,969	270	65.96	80.09
Sutton Energy Complex	Block Total	4,164,467	719	66.17	75.83

Notes:

 Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Duke Energy Progress Power Plant Performance Data Twelve Month Summary

October, 2017 through September, 2018

Intermediate Steam Units

Unit Name	Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Equivalent Availability (%)
Mayo 1	1,502,917	746	23.00	84.32
Roxboro 2	1,848,346	673	31.35	78.61
Roxboro 3	1,833,144	698	29.98	72.11
Roxboro 4	1,579,673	711	25.36	52.05

Notes:

 Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Twelve Month Summary October, 2017 through September, 2018 Other Cycling Steam Units

Unit Name		Net Generation (mWh)	Capacity Rating (mW)	Capacity Factor (%)	Operating Availability (%)
Asheville	1	625,457	192	37.19	87.21
Asheville	2	490,437	192	29.16	87.54
Roxboro	1	723,649	380	21.74	82.04

Notes:

 Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

Twelve Month Summary October, 2017 through September, 2018 Combustion Turbine Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Asheville CT	514,865	370	85.83
Blewett CT	240	68	92.78
Darlington CT	197,291	862	71.53
Richmond County CT	2,764,154	930	81.42
Sutton Fast Start CT	229,115	96	89.93
Wayne County CT	368,113	962	96.71
Weatherspoon CT	1,718	164	94.63

Notes:

 Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.

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Twelve Month Summary October, 2017 through September, 2018 Hydroelectric Stations

Station Name	Net Generation (mWh)	Capacity Rating (mW)	Operating Availability (%)
Blewett	102,236	27.0	90.34
Marshall	1,509	4.0	11.57
Tillery	163,461	84.0	94.58
Walters	425 091	113.0	97.26

Notes:

 Units in commercial operation for the full month are presented. Pre-commercial or partial month commercial operations are not included.